

## ABSTRACT

Formulation of recycled polyethylene terephthalate (PET) with pulverized recycled rubber-like material, and optimally a compatibilizing agent is described for application to railroad tie construction and other products. Desirably, the attractive formulation provides useful products from recycling of plastic PET bottles and discarded tires which greatly benefits the environment. The formulation can be foamed during an extrusion process to reduce the density of the composite so as to be even more economically attractive. Optional use of branching-chain extension agents and/or hydrolytic stabilization additives can also be used in the formulation for further benefits.